



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

DEC 11 2000

DOT-E 11178
(FIFTH REVISION)

EXPIRATION DATE: September 30, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Great Lakes Chemical Corporation
Eldorado, Arkansas

(See Appendix A for a list of additional grantees)

2. PURPOSE AND LIMITATIONS:

- a. This exemption authorizes the transportation in commerce of bromine, Class 8, Hazard Zone A, in a non-DOT specification portable tank constructed of 1/4 inch thick mild steel with 1/4 inch lead lining. This exemption provides no relief from any Hazardous Materials Regulation (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101 Column (7) Special Provisions T-18 and T-41, and § 173.249(f).

5. BASIS: This exemption is based on the application of Great Lakes Chemical Corporation dated October 9, 2000 in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/Hazardous Materials Description	Hazard Class/Division	Identification Number	Packing Group
Bromine	Class 8	UN1744	PG I, Hazard Zone A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification portable tank designed, constructed and stamped in accordance with Section VIII Division I of the ASME Code, and in full conformance with DOT IM 101 portable tanks except it is not marked IM 101 and it is not fitted with pressure relief valves. The portable tank must conform with the Gulf Coast Alloy Welding Inc., drawing number D-2294, sheets 1-3 dated May 7, 1994, on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

b. TESTING - Each portable tank must be hydrostatically tested as required by the ASME Code at the time of manufacture and additionally must be reinspected and retested once every five years in accordance with all applicable requirements of § 173.32(b) as prescribed for DOT Specification IM 101 portable tanks.

c. MARKING - Each portable tank must be marked "DOT-E 11178" on the specification plate in place of the "IM-101" specification marking.

d. OTHER SPECIFICATIONS -

Design Service pressure (MAWP)....	75 psig.
Test pressure.....	112.5 psig.
Volume.....	125 gallon water capacity (nominal).

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Material.....	SA 516 Gr. 70, Heads; SA-36 plate.
Outside diameter.....	30 inches, nominal.
Length.....	63.75 inches, nominal.
Head thickness.....	0.250 inch, min.
Sidewall thickness.....	0.250 inch, min.
Openings - Sidewall.....	none
Openings - head.....	2 inch, 150psig rated flanged ball valve.
Pressure relief devices.....	none
Welded attachments.....	2-valve cover lifting lugs.
Lining.....	0.25 inch layer of bonded lead

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modification or change is made to the package or its contents and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

d. Each portable tank must be visually inspected after each use for damage to the lining and corrosion to the tank.

e. Each portable tank must be secured to the motor vehicle in conformance with the requirements of 49 CFR 393.100 through 393.106.

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f. Each portable tank must be plainly and durably marked on opposite sides of the tank in letters and numerals at least 2 inches high on a contrasting background, "DOT-E 11178".

g. Each portable tank must be labeled in accordance with Subpart E of Part 172.

h. Each portable tank must be marked as prescribed in § 172.313 for materials which are poisonous by inhalation. (Note: shipping papers must also be marked in accordance with § 172.203(m)).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each motor vehicle used to transport packages covered by this exemption.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law 49 U.S.C. 5101 et seq.:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

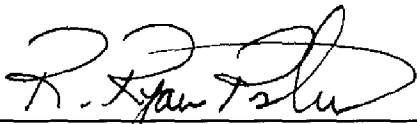
No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

Each "hazmat employee" as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as

practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

Issued in Washington, D.C.



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for
Hazardous Materials Safety, Research and Special Programs
Administration, Department of Transportation, Washington, D.C.
20590.
Attention: DHM-31.

PO: sdc

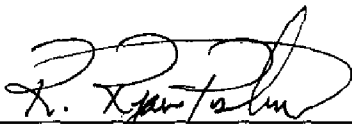
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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Albemarle Corporation Baton Rouge, La	9/15/2000	10/2/2000	9/30/2002



for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety